WHAT IS CLAIMED IS:

1	1. A method of detecting the presence or absence of <i>Bacillus anthracis</i> in		
2	test sample, the method comprising:		
3	contacting a test sample with a capture reagent that can bind to a		
4	Bacillus anthracis surface array protein, wherein the capture reagent forms a complex with		
5	the surface array protein if the surface array protein is present in the test sample; and		
6	detecting whether surface array protein is bound to the capture reagent,		
7	wherein the presence of surface array protein is indicative of the presence of Bacillus		
8	anthracis in the test sample.		
1	2. The method of claim 1, wherein the surface array protein comprises a		
2	polypeptide having an amino acid sequence of SEQ ID NO:1.		
1	3. The method of claim 1, wherein the <i>B. anthracis</i> strain is encapsulated.		
1	4. The method of claim 1, wherein the capture reagent comprises an		
2	antibody which binds to surface array protein.		
1	5. The method of claim 4, wherein the antibody is a recombinant antibody		
1	6. The method of claim 5, wherein the antibody is a recombinant		
2	polyclonal antibody.		
1	7. The method of claim 5, wherein the antibody is a monoclonal antibody		
1	8. The method of claim 1, wherein the test sample is collected from a site		
2	of suspected or threatened anthrax contamination.		
1	9. The method of claim 8, wherein the test sample is collected using a		
2	cyclonic collection device.		
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1	10.	The method of claim 1, wherein the test sample is not cultured prior to	
2	contacting with the capture reagent.		
1 2	11. solid support.	The method of claim 1, wherein the capture reagent is immobilized on a	
1	12.	The method of claim 11, wherein the solid support is a microtiter dish.	
1	13.	The method of claim 11, wherein the capture reagent is immobilized on	
2	the solid support prior to contacting the capture reagent with the test sample.		
1 2	14.	The method of claim 1, wherein the method can detect <i>B. anthracis</i> at ow as about 10,000 cfu/ml.	
1	15.	The method of claim 14, wherein the method can detect B. anthracis at	
2	concentrations as le	ow as about 5,000 cfu/ml.	
1 2	16. concentrations as l	The method of claim 15, wherein the method can detect <i>B. anthracis</i> at ow as about 1,800 cfu/ml.	
1	17.	The method of claim 1, wherein the detection of the surface array	
2	protein is performed by contacting the surface array protein with a detection reagent that can		
3	bind to the surface array protein.		
1 2	18.	The method of claim 17, wherein the detection reagent comprises an ands to surface array protein.	
1	19.	The method of claim 17, wherein the detection reagent binds to a	
2	different epitope o	f the surface array protein than does the capture reagent.	
1 2	20. detectable label.	The method of claim 17, wherein the detection reagent comprises a	

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1	21.	The method of claim 20, wherein the detectable label is selected from		
2	the group consisting of a radioactive label, a fluorophore, a dye, an enzyme, and a			
3	chemiluminescent	label.		
1	22.	A kit for detecting the presence or absence of Bacillus anthracis in a		
2	sample, the kit comprising:			
3		a solid support upon which is immobilized a capture reagent that can		
4	bind to a surface array protein of Bacillus anthracis; and			
5		a detection reagent which binds to the surface array protein.		
1	23.	The kit of claim 22, wherein the solid support is a microtiter dish.		
1	24.	The kit of claim 22, wherein the capture reagent is an antibody.		
1	25.	The kit of claim 24, wherein the antibody is a recombinant polyclonal		
2	antibody.			
1	26.	The kit of claim 24, wherein the antibody is a monoclonal antibody.		
1	27.	The kit of claim 22, wherein the capture reagent is a mixture of		
2	monoclonal and polyclonal antibody preparations.			
1	28.	The kit of claim 22, wherein the kit further comprises written		
2	instructions for using the kit to determine whether a test sample contains B. anthracis.			
1	29.	The kit according to claim 22, wherein the kit further comprises a		
2	positive control that	at comprises a polypeptide that comprises an antigenic determinant of a E		
3	anthracis surface array protein.			
1	30.	The kit according to claim 29, wherein the surface array protein		
2	comprises an amino acid sequence of SEQ ID NO:1.			

- 1 31. A recombinant polyclonal antibody preparation that specifically binds to
- 2 an antigenic determinant of a surface array protein of *Bacillus anthracis*.
- 1 32. The recombinant polyclonal antibody preparation of claim 31, wherein
- 2 the surface array protein comprises an amino acid sequence of SEQ ID NO:1.

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